

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/013858

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01N33/68 C07K16/44

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| A          | US 5 539 094 A (REED ET AL)<br>23 July 1996 (1996-07-23)<br>the whole document  | 1-55                  |
| Y          | -----<br>TAKAYAMA S ET AL: "EXPRESSION AND<br>LOCATION OF HSP70/HSC-BINDING<br>ANTI-APOPTOTIC PROTEIN BAG-1 AND ITS<br>VARIANTS IN NORMAL TISSUES AND TUMOR CELL<br>LINES"<br>CANCER RESEARCH, AMERICAN ASSOCIATION FOR<br>CANCER RESEARCH, BALTIMORE, MD, US,<br>vol. 58, no. 14,<br>15 July 1998 (1998-07-15), pages<br>3116-3131, XP000941973<br>ISSN: 0008-5472 | 1-55                  |
| X          | the whole document<br>-----<br>-/--   | 52,53                 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the International filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the International search

6 Apr11 2005

Date of mailing of the International search report

18/04/2005

Name and mailing address of the ISA

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|--|---|-----------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
| A  | TAKAYAMA SHINICHI ET AL: "An evolutionarily conserved family of Hsp70/Hsc70 molecular chaperone regulators"<br>JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US,<br>vol. 274, no. 2,<br>8 January 1999 (1999-01-08), pages 781-786, XP002182051<br>ISSN: 0021-9258<br>the whole document                   | 1-55                  |
| Y  | ANTOKU K ET AL: "ISOLATION OF BCL-2 BINDING PROTEINS THAT EXHIBIT HOMOLOGY WITH BAG-1 AND SUPPRESSOR OF DEATH DOMAINS PROTEIN"<br>BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS, SAN DIEGO, CA, US,<br>vol. 286, no. 5,<br>7 September 2001 (2001-09-07), pages 1003-1010, XP001071206<br>ISSN: 0006-291X<br>the whole document | 1-55                  |
| Y  | BRIKNAROVA KLARA ET AL: "BAG4/SODD protein contains a short BAG domain"<br>JOURNAL OF BIOLOGICAL CHEMISTRY,<br>vol. 277, no. 34,<br>23 August 2002 (2002-08-23), pages 31172-31178, XP001180035<br>ISSN: 0021-9258<br>the whole document  | 1-55                  |
| X  | EICHHOLTZ-WIRTH H ET AL: "Altered signaling of TNFalpha-TNFR1 and SODD/BAG4 is responsible for radioresistance in human HT-R15 cells"<br>ANTICANCER RESEARCH,<br>vol. 22, no. 1A, January 2002 (2002-01), pages 235-240, XP009027254<br>ISSN: 0250-7005<br>the whole document   | 22,52-54              |
| Y  |   | 1-55                  |
| Y  | WO 00/14106 A (THE BURNHAM INSTITUTE)<br>16 March 2000 (2000-03-16)   | 1-55                  |
| X  | the whole document  | 34-37,<br>52-54       |
|  | -----<br>-/-  |                       |

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |  |                       |
|--|--|-----------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| Y  | TOWNSEND. P. A. ET AL: "Bag-1 expression in human breast cancer: interrelationship between BAG-1 RNA, protein, HSC70 expression and clinico pathological data" THE JOURNAL OF PATHOLOGY, vol. 197, no. 1, May 2002 (2002-05), pages 51-59, XP009027243 | 1-55                  |
| X  | the whole document   | 52, 53                |

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

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## Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claim 21 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/013858

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---|---------------------|----------------------------|---------------------|
| US 5539094                                | A | 23-07-1996          | AU 687952 B2               | 05-03-1998          |
|   |   |                     | AU 1174295 A               | 29-05-1995          |
|   |   |                     | CA 2176378 A1              | 18-05-1995          |
|   |   |                     | EP 0742793 A1              | 20-11-1996          |
|   |   |                     | JP 9509304 T               | 22-09-1997          |
|   |   |                     | WO 9513292 A1              | 18-05-1995          |
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|   |   |                     | US 5641866 A               | 24-06-1997          |
| WO 0014106                                | A | 16-03-2000          | AU 774355 B2               | 24-06-2004          |
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|   |   |                     | CA 2342027 A1              | 16-03-2000          |
|   |   |                     | EP 1109824 A1              | 27-06-2001          |
|   |   |                     | JP 2002524068 T            | 06-08-2002          |
|   |   |                     | WO 0014106 A1              | 16-03-2000          |

Form PCT/ISA/210 (patent family annex) (January 2004)

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